

**WEST****End of Result Set** [Generate Collection](#) 

L2: Entry 4 of 4

File: DWPI

Apr 1, 1975

DERWENT-ACC-NO: 1975-25626W

DERWENT-WEEK: 197515

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Transfer printing grey fabric - double knit heat set printed on opposite sides in single pass

PATENT-ASSIGNEE: J M ASHE (ASHEI)

PRIORITY-DATA: 1973US-0371640 (June 20, 1973)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 3874846 A	April 1, 1975		000	

INT-CL (IPC): B41M 5/26; D06P 3/24

ABSTRACTED-PUB-NO: US 3874846A

## BASIC-ABSTRACT:

Transfer printing fabric, with a web of 5 to 14 oz. per yard, with background colour and pattern on opposite sides in succession while the fabric and the paper transfer print webs are tensioned for printing under heat and pressure, pref. with the fabric travel direction reversed so that both print steps are from below. Grey fabric is printed with background and pattern colours, at 1 p.s.i. and 400-480 degrees F with or without embossing of pattern and simulation of woven threads, on synthetics selected from polyesters, acrylics and amides. One-pass sequential transfer printing, in register, of double knit scoured fabric on both sides is achieved.

ABSTRACTED-PUB-NO: US 3874846A

## EQUIVALENT-ABSTRACTS:

DERWENT-CLASS: A35 F06 P75

CPI-CODES: A11-C04A; F03-G;

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 10 of 15 returned.** **1. Document ID: EP 1236580 A2**

L1: Entry 1 of 15

File: EPAB

Sep 4, 2002

PUB-NO: EP001236580A2

DOCUMENT-IDENTIFIER: EP 1236580 A2

TITLE: Improved printing method and apparatus

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>
<a href="#">Draw Desc</a>	<a href="#">Image</a>										

 **2. Document ID: JP 2002052761 A**

L1: Entry 2 of 15

File: DWPI

Feb 19, 2002

DERWENT-ACC-NO: 2002-276206

DERWENT-WEEK: 200232

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TITLE: Image forming device for e.g. inkjet printer, includes two sets of recording heads which enable formation of image on both sides of recording paper in single pass paper feed

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>
<a href="#">Draw Desc</a>	<a href="#">Clip Img</a>	<a href="#">Image</a>									

 **3. Document ID: US 6328518 B1**

L1: Entry 3 of 15

File: DWPI

Dec 11, 2001

DERWENT-ACC-NO: 2002-146732

DERWENT-WEEK: 200219

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TITLE: Index divider sheet assembling method in printing, involves removably adhering peel-off strip to back of untabbed sheet, such that it extends from sheet edge and behind indicia printed portion

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>
<a href="#">Draw Desc</a>	<a href="#">Clip Img</a>	<a href="#">Image</a>									

 **4. Document ID: US 6209779 B1**

L1: Entry 4 of 15

File: DWPI

Apr 3, 2001

DERWENT-ACC-NO: 2001-256912  
DERWENT-WEEK: 200315  
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**TITLE:** Laminated mailer blank with transparent window

5. Document ID: US 6089777 A

L1: Entry 5 of 15

File: DWPI

Jul 18, 2000

DERWENT-ACC-NO: 2000-514019

DERWENT-WEEK: 200219

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TITLE: Tabbed divider sheet assembly for ink jet printers has peel-off film strip with receptive coating of straight edge

6. Document ID: EP 903232 A2 US 6142622 A

L1: Entry 6 of 15

File: DWPI

Mar 24, 1999

DERWENT-ACC-NO: 1999-192251

DERWENT-WEEK: 200218

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TITLE: Ink-jet printer for two-sided label web

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RJMC
Draft	Desc	Clip	Img	Image						

7. Document ID: ZA 9708762 A

L1: Entry 7 of 15

File: DWPI

Jun 24, 1998

DERWENT-ACC-NO: 1998-414515

DERWENT-WEEK: 199835

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TITLE: Stationary product with peel off labels - has facing sheets releasably adhered with a release layer with silicone to opposed faces of wax paper backing sheet

8. Document ID: DE 69623024 E EP 848300 A1 JP 10171173 A US 5999785 A EP 848300 B1

L1: Entry 8 of 15

File: DWPI

Sep 19, 2002

DERWENT-ACC-NO: 1998-314656

DERWENT-WEEK: 200269

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TITLE: Simplex prints production method by single pass duplex printer - producing toner images on both sides of receptor support conveyed through apparatus and fuser station fuses toner images

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Clip Img	Image								

9. Document ID: JP 3331248 B2 GB 2275021 A DE 4303796 A1 FR 2701422 A1 US 5467710 A GB 2275021 B DE 4303796 C2

L1: Entry 9 of 15

File: DWPI

Oct 7, 2002

DERWENT-ACC-NO: 1994-242682

DERWENT-WEEK: 200273

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TITLE: Rotary printing press for two-sided sheet printing - has two horizontal tandem satellite printers with feeder and delivery conveyor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Clip Img	Image								

10. Document ID: JP 3426655 B2 US 5229787 A EP 589650 A1 EP 589650 B1 DE 69315784 E

L1: Entry 10 of 15

File: DWPI

Jul 14, 2003

DERWENT-ACC-NO: 1993-242644

DERWENT-WEEK: 200347

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TITLE: Colour digital printer with imaging stations near both sides of photoreceptor belt - forms multiple latent images on surface of belt type photoreceptors in single pass and controls asynchronous print bar so scanned lines are in synchronisation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Clip Img	Image								

Terms	Documents
(print\$ with ("both-side" or (both adj side) or ("two-side") or (two adj side))) same ("one-pass" or (single adj pass))	15

Display Format:  -

[Previous Page](#)      [Next Page](#)

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 11 through 15 of 15 returned.**

11. Document ID: BE 1003176 A IE 65402 B GB 2258191 A GB 2258191 B

L1: Entry 11 of 15

File: DWPI

Dec 17, 1991

DERWENT-ACC-NO: 1992-057123

DERWENT-WEEK: 199603

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TITLE: Rotary offset printing procedure - uses guide rollers between cooling rollers and sheet folding unit for positioning paper before and after folding

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">KUMC</a>
<a href="#">Draw Desc</a>   <a href="#">Clip Img</a>   <a href="#">Image</a>										

12. Document ID: EP 343105 A AU 8934666 A CA 1310859 C CN 1038789 A DD 283786 A DE 58906398 G EP 343105 B1 SU 1806057 A3 US 5009156 A

L1: Entry 12 of 15

File: DWPI

Nov 23, 1989

DERWENT-ACC-NO: 1989-341863

DERWENT-WEEK: 198947

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TITLE: Multicolour rotary press printing on both sides - has additional printing mechanism for one or both blanket cylinders

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">KUMC</a>
<a href="#">Draw Desc</a>   <a href="#">Image</a>										

13. Document ID: EP 132857 A AU 8431117 A BE 901555 A BR 8500315 A CA 1222161 A CS 8500206 A DD 218589 A DE 3468195 G DE 3471610 G DK 8500315 A EP 132857 B ES 8507387 A FI 8500310 A FI 8500312 A HU 38865 T NL 8500169 A NO 8500322 A PT 79866 A SU 1384192 A US 4584939 A US 4794856 A ZA 8410130 A

L1: Entry 13 of 15

File: DWPI

Feb 13, 1985

DERWENT-ACC-NO: 1985-039470

DERWENT-WEEK: 198507

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TITLE: Rotary offset duplex printing machine with single pass - has cylinder contacting offset plate carriers and second cylinder acting as colour collection, printing both sides simultaneously

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

14. Document ID: DE 3220542 A

L1: Entry 14 of 15

File: DWPI

Dec 1, 1983

DERWENT-ACC-NO: 1983-833964

DERWENT-WEEK: 198349

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TITLE: Multicolour offset printing mechanism - has detachable supplementary mechanism vertically above basic one with three further units

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

15. Document ID: US 3874846 A

L1: Entry 15 of 15

File: DWPI

Apr 1, 1975

DERWENT-ACC-NO: 1975-25626W

DERWENT-WEEK: 197515

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TITLE: Transfer printing grey fabric - double knit heat set printed on opposite sides in single pass

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

Generate Collection

Print

Terms	Documents
(print\$ with ("both-side" or (both adj side) or ("two-side") or (two adj side))) same ("one-pass" or (single adj pass))	15

Display Format:

[Previous Page](#)    [Next Page](#)

**WEST** Generate Collection  Print

L1: Entry 13 of 15

File: DWPI

Feb 13, 1985

DERWENT-ACC-NO: 1985-039470

DERWENT-WEEK: 198507

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Rotary offset duplex printing machine with single pass - has cylinder contacting offset plate carriers and second cylinder acting as colour collection, printing both sides simultaneously

INVENTOR: **GIORI, G**

PATENT-ASSIGNEE: DE LA RUE GIORI SA (DELR)

PRIORITY-DATA: 1983CH-0004086 (July 26, 1983), 1985BE-0901555 (January 24, 1985)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 132857 A	February 13, 1985	F	028	
AU 8431117 A	January 31, 1985		000	
BE 901555 A	May 17, 1985		000	
BR 8500315 A	September 2, 1986		000	
CA 1222161 A	May 26, 1987		000	
CS 8500206 A	September 18, 1984		000	
DD 218589 A	February 13, 1985		000	
DE 3468195 G	February 4, 1988		000	
DE 3471610 G	July 7, 1988		000	
DK 8500315 A	July 25, 1986		000	
EP 132857 B	December 23, 1987	F	000	
ES 8507387 A	December 16, 1985		000	
FI 8500310 A	July 25, 1986		000	
FI 8500312 A	July 25, 1986		000	
HU 38865 T	July 28, 1986		000	
NL 8500169 A	August 18, 1986		000	
NO 8500322 A	August 18, 1986		000	
PT 79866 A	July 31, 1985		000	
SU 1384192 A	March 23, 1988		000	
US 4584939 A	April 29, 1986		000	
US 4794856 A	January 3, 1989		000	
ZA 8410130 A	July 1, 1985		000	

DESIGNATED-STATES: AT CH DE FR GB IT LI SE AT CH DE FR GB IT LI SE

CITED-DOCUMENTS: BE 621713; DE 2115790

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 132857A	May 17, 1984	1984EP-0200708	
BE 901555A	January 24, 1985	1985BE-0901555	
SU 1384192A	July 24, 1984	1984SU-3768321	
US 4584939A	June 21, 1984	1984US-0622988	
US 4794856A	January 28, 1986	1986US-0823322	

INT-CL (IPC): A23F 3/40; B41F 5/16; B41F 7/12; B41F 9/02; B41F 11/02; B41F 21/00;  
B41L 0/00; B41M 3/14

ABSTRACTED-PUB-NO: EP 132857A

BASIC-ABSTRACT:

An indirect printing device (A) applies an offset impression on one side of a note (1) and an Orlof impression on the other. The note is then transported to a drier, reverser and copperplate printer. A first cylinder (12) makes contact with several offset plate-carriers (8,11) having separate inking devices (7,9) of different colours.

A second cylinder (16) acts as a colour collector in contact with selectors (15) and a typographic plate carrier (17) bearing the complete design of the second image for printing on the face of the note via a third cylinder (19).

ADVANTAGE - Two sides of note are printed simultaneously with multicoloured security backgrounds, and copperplate image is added on one side only. Printing time and cost are saved, and counterfeiting is rendered more difficult.

ABSTRACTED-PUB-NO: EP 132857B

EQUIVALENT-ABSTRACTS:

Combined rotary printing machine, notably for printing fiduciary papers, comprising on the one hand a multicolor indirect printing machine (A) for the simultaneous recto-verso printing having a first blanket cylinder (12) engaging a plurality of offset plate cylinders (8,11) each linked by an inking unit (7,9) in a different color, the number of said offset plate cylinders corresponding to the number of colours and designs of the first image to be printed on one side of the paper (1), said first image being an image with superposed colours and designs, and a second blanket cylinder (19) pressed against said first blanket cylinder (12) and inked with a plurality of colours forming the second image to be printed, the paper (1) passing between said first and said second blanket cylinders (12,19) so as to be printed simultaneously on both sides with said first and second images, respectively, and comprising on the other hand an intaglio printing machine (D) incorporating a plate cylinder (36) inked in several colours and co-operating with a wiping device (35) and an impression cylinder (37), and a paper transfer system that connects the two machines (A,D) and in which a drying device (B) is incorporated, characterized in that: the indirect printing machine (A) is the first printing machine through which the paper passes, and comprises moreover a third blanket cylinder (16) operating as a colour collecting cylinder engaging a plurality of selective colour inking cylinders (15) and a typographic plate cylinder (17) representing the complete design of the second image to be printed on the other side of the paper (1), said selective colour inking cylinders (15), of which the number corresponds to the number of colours of the second image and of which the relief areas correspond to the portions of said second image which are to be coloured in said different colours, being each inked by an inking device (14) in a different colour and applying an image with juxtaposed colours,

US 4584939A

The indirect printer has a drier, a sheet transfer feed turning device actuated according to requirements, and an intaglio printing machine. It allows in a single pass, a simultaneous recto-verso printing. This involves printing on one side according to the colour collecting printing method, an image with juxtaposed colours, and on the other side according to the offset printing method an image with

superposed colours and designs, notably for creating safety background on bank notes. It can also involve after drying and, if necessary, turning the sheets, an image printed by intaglio printing on one of the sides, notably for creating a main design on the bank notes.

The multicolour printing on the side receiving the image with juxtaposed colours may be completed by a monochrome wet offset printing.

ADVANTAGE - The banknotes produced are difficult to counterfeit. (9pp)p

US 4794856A

The printing machine comprises an indirect printing device, a drying device, a sheet transfer and turning device actuated according to requirements and an intaglio printing machine. It permits printing in a single pass through the device a simultaneous recto-verso printing, namely on one side according to the colour collecting printing method, an image with juxtaposed colours and on the other side according to the offset printing method an image with superposed colours and designs.

After drying and, if necessary, turning the sheets, an image is printed by intaglio printing on one of the sides, for creating a main design. The multicolour printing on the side receiving the image with juxtaposed colours may be completed in the device by a monochrome wet offset printing. A register control device is incorporated between the sheet transfer and turning device and the intaglio printing machine.

USE - Combined rotary multicolour perfecting press; esp. for printing banknotes.  
(10pp)

CHOSEN-DRAWING: Dwg.1a/3

DERWENT-CLASS: P74 P75

**WEST** Generate Collection  Print

L1: Entry 2 of 15

File: DWPI

Feb 19, 2002

DERWENT-ACC-NO: 2002-276206

DERWENT-WEEK: 200232

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TITLE: Image forming device for e.g. inkjet printer, includes two sets of recording heads which enable formation of image on both sides of recording paper in single pass paper feed

PATENT-ASSIGNEE: RICOH KK (RICO)PRIORITY-DATA: 2000JP-0239302 (August 8, 2000)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 2002052761 A</u>	February 19, 2002		010	B41J003/54

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2002052761A	August 8, 2000	2000JP-0239302	

INT-CL (IPC): B41 J 2/01; B41 J 3/54; B41 J 13/00; B41 J 25/312; B41 J 25/316; B65 H 5/06; B65 H 29/20

ABSTRACTED-PUB-NO: JP2002052761A

## BASIC-ABSTRACT:

NOVELTY - The image forming device includes two sets of recording heads (6a,6b) which enable the formation of an image on both sides of a recording paper in a single pass paper feed.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for an image forming apparatus e.g. inkjet printer.

USE - For e.g. inkjet printer.

ADVANTAGE - Enables exchanging the recording heads easily. Enables stable formation of a high resolution image. Prevents flapping and blotting of the recording paper. Enables forming a high resolution image on both side of a recording paper in a short time.

DESCRIPTION OF DRAWING(S) - The figure shows the partial cross-section explanatory diagram of the image forming device.

Recording heads 6a,6b

ABSTRACTED-PUB-NO: JP2002052761A

## EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.2/15

DERWENT-CLASS: P75 Q36 T04

EPI-CODES: T04-G06A; T04-G08; T04-G09;

WEST

 Generate Collection  Print

L1: Entry 1 of 15

File: EPAB

Sep 4, 2002

PUB-N0: EP001236580A2

DOCUMENT-IDENTIFIER: EP-1236580-A2

TITLE: Improved printing method and apparatus

PUBN-DATE: September 4, 2002

## INVENTOR-INFORMATION:

NAME	COUNTRY
ELKO, PAUL PETER	US
BRODNICK, DONALD EUGENE	US

## ASSIGNEE-INFORMATION:

NAME	COUNTRY
GE MEDICAL SYSTEMS INFORMATION	US

APPL-NO: EP02251347

APPL-DATE: February 27, 2002

PRIORITY-DATA: US68122901A (March 1, 2001)

INT-CL (IPC): B41 J 3/60

EUR-CL (EPC): B41J003/60

## ABSTRACT:

CHG DATE=20021002 STATUS=0> An apparatus and method for printing on both sides of a medium (34) by passing the medium (34) through a printing device (30) and printing on oppositely facing portions (66, 70) of the medium (34) during a single pass of the medium (34) through the printing device (30). Preferably, a first print head (50) prints on one portion while a second print head (54) prints on the other portion. The medium (34) is preferably folded so that after the printing is completed and the folded medium (34) is unfolded, the printed information (74) on one portion of the medium (34) correlates with the printed information (74) on the other portion of the medium (34). The printed information (74) is preferably data that has been measured with respect to time, and the printed data (74) on the oppositely facing portions (66, 70) correlate with respect to time. Preferably, the data is medical patient data in the form of textual data (78), physiological waveforms (74), or a combination of both.

**WEST** Generate Collection  Print

L2: Entry 1 of 4

File: DWPI

Mar 24, 1999

DERWENT-ACC-NO: 1999-192251

DERWENT-WEEK: 200218

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TITLE: Ink-jet printer for two-sided label webINVENTOR:  CURLEY, C M ; STEWART, D M

PATENT-ASSIGNEE: PAXAR CORP (PAXAN)

PRIORITY-DATA: 1997US-0932483 (September 18, 1997)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 903232 A2	March 24, 1999	E	021	B41J002/01
US 6142622 A	November 7, 2000		000	B41J002/01

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
RO SE SI

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 903232A2	August 5, 1998	1998EP-0114715	
US 6142622A	September 18, 1997	1997US-0932483	

INT-CL (IPC): B41J 2/01; B41 J 3/60

RELATED-ACC-NO: 2002-138442

ABSTRACTED-PUB-NO: EP 903232A

## BASIC-ABSTRACT:

NOVELTY - The printer includes a frame, removable printer modules containing ink-jet print heads, PCB, ink cartridge, and tubing supplying ink to the print head. The printer modules are adjacent to a side edge of the label web and can move to positions adjacent opposite sides of the web. The web can be guided so that the heads can selectively print on both sides of it.

USE - For printing on webs of labels.

ADVANTAGE - Printer allows threading of a label web through a printer, and can print selectively either on one side or face of the label web or on both sides or faces of the label web in a single pass through the printer.

DESCRIPTION OF DRAWING(S) - The figure shows a front elevational view of the printer in its label web loading position.

web W

supply roll R

parallel rollers 21,22  
roll core bar code sensor 22  
hysteresis brake 23a  
spindle 23  
meshing gears 23b,23c  
guide 24  
frame plate 26  
guides 27,28  
print head 29  
guides 39,40  
auxiliary feed roll 33  
blades 35  
back-up roll 36

ABSTRACTED-PUB-NO: US 6142622A  
EQUIVALENT-ABSTRACTS:

NOVELTY - The printer includes a frame, removable printer modules containing ink-jet print heads, PCB, ink cartridge, and tubing supplying ink to the print head. The printer modules are adjacent to a side edge of the label web and can move to positions adjacent opposite sides of the web. The web can be guided so that the heads can selectively print on both sides of it.

USE - For printing on webs of labels.

ADVANTAGE - Printer allows threading of a label web through a printer, and can print selectively either on one side or face of the label web or on both sides or faces of the label web in a single pass through the printer.

DESCRIPTION OF DRAWING(S) - The figure shows a front elevational view of the printer in its label web loading position.

web W  
supply roll R  
parallel rollers 21,22  
roll core bar code sensor 22  
hysteresis brake 23a  
spindle 23  
meshing gears 23b,23c  
guide 24  
frame plate 26  
guides 27,28  
print head 29

guides 39, 40

auxiliary feed roll 33

blades 35

back-up roll 36

CHOSEN-DRAWING: Dwg. 1/12

DERWENT-CLASS: P75 T04

EPI-CODES: T04-G02; T04-J;

## WEST

 Generate Collection  Print

L2: Entry 2 of 4

File: DWPI

Dec 17, 1991

DERWENT-ACC-NO: 1992-057123

DERWENT-WEEK: 199603

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TITLE: Rotary offset printing procedure - uses guide rollers between cooling rollers and sheet folding unit for positioning paper before and after folding

INVENTOR: KIRWAN, J; WHITTY, C

PATENT-ASSIGNEE: SMURFIT WEB RES LTD (SMURN)

PRIORITY-DATA: 1991IE-0002673 (July 30, 1991)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
BE 1003176 A	December 17, 1991		000	
IE 65402 B	October 18, 1995		000	B41F023/04
GB 2258191 A	February 3, 1993		023	B41F023/04
GB 2258191 B	November 30, 1994		003	B41F023/04

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
BE 1003176A	August 28, 1991	1991BE-0000797	
IE 65402B	July 30, 1991	1991IE-0002673	
GB 2258191A	August 14, 1991	1991GB-0017553	
GB 2258191B	August 14, 1991	1991GB-0017553	

INT-CL (IPC): B41F-7/12; B41F 23/04

ABSTRACTED-PUB-NO: BE 1003176A

## BASIC-ABSTRACT:

The rotary offset printing procedure consists of feeding the paper (2) from a pair of spools into the printing units and printing simultaneously on both sides of the paper as it passes between rotary printing rollers (30). The printed paper is then passed through an ink drier and cooling rollers before cutting and folding into sheets.

The paper layers are passed over guide rollers in between the cooling rollers and folding unit, with the guide rollers adjustable to control the position of the paper as it is fed into the folder unit. In addition, the folded sheets are positioned as they leave the folder unit so that the folded edges all lie in the same direction. This is done with the aid of a turning mechanism in the form of a rotary cylinder with a number of spiral arms, with the spaces between them designed to receive one folded sheet.

ADVANTAGE - Improved performance and improved positioning of folded sheets for subsequent processing.

ABSTRACTED-PUB-NO: GB 2258191B

## EQUIVALENT-ABSTRACTS:

A rotary offset printing process comprising the steps; (a) leading a pair of webs from rotatable web storage reels to associated printing units, (b) simultaneously printing on both sides of each web at the printing units, each web being passed between a pair of rotating blanket rollers which apply print to the web, (c) guiding the webs to a drying oven, (d) passing both webs through the drying oven in a single pass together in a controlled manner to dry the print on both sides of each web as the webs pass through the drying oven, the webs being spaced-apart one above the other, carefully controlling the heat input in the oven, the relative spacing of the webs and the speed at which the webs travel through the oven, (e) guiding the webs from the oven to cooling rollers and passing the webs over the cooling rollers, (f) delivering the webs to a folding unit, in which the steps of cutting the web into sheets and folding each sheet are carried out, the folded sheets being discharged onto a conveyer for delivery to a further processing station.

CHOSEN-DRAWING: Dwg.3/10 Dwg.1/1

DERWENT-CLASS: P74

## WEST

 Generate Collection  Print

L2: Entry 3 of 4

File: DWPI

Nov 23, 1989

DERWENT-ACC-NO: 1989-341863

DERWENT-WEEK: 198947

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TITLE: Multicolour rotary press printing on both sides - has additional printing mechanism for one or both blanket cylinders

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PATENT-ASSIGNEE: DE LA RUE GIORI SA (DELR)

PRIORITY-DATA: 1988CH-0001887 (May 18, 1988)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 343105 A	November 23, 1989	G	005	
AU 8934666 A	November 23, 1989		000	
CA 1310859 C	December 1, 1992		000	B41F011/02
CN 1038789 A	January 17, 1990		000	
DD 283786 A	October 24, 1990		000	
DE 58906398 G	January 27, 1994		000	B41F011/02
EP 343105 B1	December 15, 1993	G	007	B41F011/02
SU 1806057 A3	March 30, 1993		005	B41F011/00
US 5009156 A	April 23, 1991		000	

DESIGNATED-STATES: AT CH DE FR GB IT LI SE AT CH DE FR GB IT LI SE

CITED-DOCUMENTS: 1. Jnl. Ref; A3...199032 ; DE 2826135 ; EP 132859 ; EP 133328 ; JP 59114058 ; No-SR.Pub ; 01Jnl.Ref

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 343105A	May 1, 1989	1989EP-0810328	
CA 1310859C	May 17, 1989	1989CA-0599981	
DE 58906398G	May 1, 1989	1989DE-0506398	
DE 58906398G	May 1, 1989	1989EP-0810328	
DE 58906398G		EP 343105	Based on
EP 343105B1	May 1, 1989	1989EP-0810328	
SU 1806057A3	May 17, 1989	1989SU-4614039	
US 5009156A	May 4, 1989	1989US-0347402	

INT-CL (IPC): B41F 5/22, B41F 9/02; B41F 11/02; B41F 13/08; B41L 15/10

ABSTRACTED-PUB-NO: EP 343105A

BASIC-ABSTRACT:

The rotary press prints, the paper (1) on both sides as it passes between two

cractioning blanket cylinders (4, 14). A forme cylinder (5, 15) bears against each blanket one. Spaced ink-collecting cylinders (6, 16) bear against the forme cylinders and also each against several ink-selection cylinders (8, 18) in an inking mechanism (9, 19).

At least one blanket cylinder works with an additional printing mechanism (10, 11, 11a; 20, 21, 21a), whose forme cylinder (10, 20) is in contact with it.

USE/ADVANTAGE - For background of banknotes and valuables, with an additional printing operation carried out on one or both sides in a single pass through the press.

ABSTRACTED-PUB-NO: EP 343105B

EQUIVALENT-ABSTRACTS:

Sheet-fed or web-fed multi-colour rotary printing machine for simultaneous recto-verso printing, especially for printing the safety background on security papers, above all banknotes with two blanket cylinders (4,14), which form a printing nip and between which the paper (1) to be printed runs through, thereby being printed on both sides, with two plate cylinders (5,15), each of which carries a collect-printing plate (5a,15a) and is in contact with one of the two blanket cylinders (4,14), and with two colour-collecting cylinders (6,16) which are arranged at a distance from one another, said colour-collecting cylinders (6,16) which are arranged at a distance from one another, said colour-collecting cylinders (6,16) are arranged in a lower position than the blanket cylinders (4,14) and respectively offset obliquely outwards relative to these, each colour-collecting cylinder being on the one hand associated with one of the plate cylinders (5,15) and being on the other hand in contact with several colour selector cylinders (8,18), each inked by an inking unit (9,19), each colour-collecting cylinder transferring all the colours obtained from these colour selector cylinders onto the respective collect-printing plate, at least one of the two blanket cylinders (4,14) interacting with at least one additional printing unit (10,11,11a;20,21,21), the plate cylinder (10;20) of which is in contact with the respective blanket cylinder (4,14), the blanket cylinders (4;14) and the colour-collecting cylinders (6,16) being of the same size and having a diameter which is an integral multiple of, preferably three times, the diameter of the plate cylinders (5,15,10,20) and of the colour selector cylinders (8,18), characterised in that the two planes, in which lie the axes of the blanket cylinder (4) and the colour-collecting cylinder (6) arranged in the one machine half, on the one hand, and the axes of the blanket cylinder (14) and of the colour-collecting cylinder (16), arranged in the other machine half, on the other hand, intersect above the printing nip at an angle of maximal 120 degrees, the distance of the two colour-collecting cylinders (6,16) from one another is at least as large as their diameter, the plate cylinders (5,15) that carry the collect printing plates (5a,15a) are arranged on the top of the colour-collecting cylinders (6,16) and are in contact with these in such a manner that the undersides of the blanket cylinders (4,14) as well as those of the colour-collecting cylinders (6,16) are freely accessible, removable automatic blanket-washing devices (7,17) are provided on said undersides of the two blanket cylinders (4,14) and of the two colour-collecting cylinders (6;16).

US 5009156A

The printing machine has two interacting blanket cylinders (4, 14) between which the paper to be printed runs through being printed on both sides. Two plate cylinders (5, 15) are provided, each of which carries a collect-printing plate and is in contact with one of the blanket cylinders.

Two colour-collecting cylinders (6, 16) are arranged at a distance from one another and each of which is in contact with a plate cylinder (5, 15) and with several colour selector cylinders (8, 18) each inked by an inking unit (9, 19). Moreover, the two blanket cylinders (4, 14) are each in contact with the plate cylinder (10, 20) of an additional printing unit which is a wet offset-printing unit working with a damped intaglio printing plate. (5pp)

CHOSEN-DRAWING: Dwg.1/1 Dwg.7

DERWENT-CLASS: P74 P75

# WEST Search History

DATE: Friday, November 28, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
			result set
<i>DB=JPAB,EPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=OR</i>			
L2	L1 and (internet or online or "on-line" or network\$ or web or www)	4	L2
L1	(print\$ with ("both-side" or (both adj side) or ("two-side") or (two adj side))) same ("one-pass" or (single adj pass))	15	L1

END OF SEARCH HISTORY